

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference CD-107-PCT	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/EP2004/053594	International filing date (day/month/year) 17/12/2004	(Earliest) Priority Date (day/month/year) 17/12/2003
Applicant CROPDESIGN N.V.		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 7 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. ☒ With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.

2. ☐ Certain claims were found unsearchable (See Box II).

3. ☒ Unity of invention is lacking (see Box III).

4. With regard to the title,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the abstract,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the drawings,

- a. the figure of the drawings to be published with the abstract is Figure No. _____

☐ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

- b. ☒ none of the figures is to be published with the abstract.

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Box No. I Nucleotide and/or amino acid sequence(s) (Continuation of item 1.b of the first sheet)

1. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, the international search was carried out on the basis of:
 - a. type of material
 - ☒ a sequence listing
 - ☐ table(s) related to the sequence listing
 - b. format of material
 - ☒ in written format
 - ☒ in computer readable form
 - c. time of filing/furnishing
 - ☒ contained in the international application as filed
 - ☐ filed together with the international application in computer readable form
 - ☒ furnished subsequently to this Authority for the purpose of search
2. ☒ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
3. Additional comments:

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Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:

3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.

2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.

3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:

4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
1-6 (all partially), 7, 9 (both completely), 10-17 (all partially)
22 (completely), 23 (partially), 24 (completely) 25-34 (all partially)

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-6 (all partially), 7,9 (both completely), 10-17 (all partially), 22 (completely), 23 (partially), 24 (completely) 25-34 (all partially)

relating to a polynucleotide encoding the polypeptide of SEQ ID NO:2 from *Nicotiana tabacum*, constructs containing said polynucleotide (SEQ ID NO:5), transgenic plants containing said polynucleotide, and methods of use of said polynucleotide.

2. claims: 1-6 (all partially), 8 (completely), 10-18 (all partially), 19 (completely), 20,21,23,25-34 (all partially)

relating to the polynucleotide of SEQ ID NO:6 from *Oryza sativa*, the corresponding polypeptide of SEQ ID NO:7, transgenic plants containing said polynucleotide, and methods of use of said polynucleotide.

3. claims: 1-6 (all partially), 10-18 (all partially), 20,21,23,25-34 (partially)

relating to the polynucleotide of SEQ ID NO:3 from *Saccharum officinarum*, the corresponding polypeptide of SEQ ID NO:4, transgenic plants containing said polynucleotide, and methods of use of said polynucleotide.

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A. CLASSIFICATION OF SUBJECT MATTER

C12N15/82 C07K14/415 A01H5/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

C12N C07K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS, Sequence Search, EMBASE, WPI Data, PAJ, CHEM ABS Data, MEDLINE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 03/085115 A (INZE DIRK ; CROPDESIGN N V (BE); BROEKAERT WILLEM (BE)) 16 October 2003 (2003-10-16) cited in the application	22,24,25
A	SEQ ID NO:61	1-7, 9-17,23, 26-34
X	& DATABASE EMBL 'Online! Sequence 61 from Patent W003085115 19 December 2003 (2003-12-19), INZE AND BROEKAERT: "Identification and validation of novel targets for agrochemicals"; XP002283466 retrieved from EBI Database accession no. AX927140 abstract ----- -/--	22,24,25



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *G* document member of the same patent family

Date of the actual completion of the international search

3 August 2005

Date of mailing of the international search report

02.03.2006

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	DOERKS TOBIAS ET AL: "Systematic identification of novel protein domain families associated with nuclear functions" GENOME RESEARCH, vol. 12, no. 1, January 2002 (2002-01), pages 47-56, XP002283274 ISSN: 1088-9051 cited in the application the whole document	1-7, 9-17, 23-34
A	----- DATABASE TREMBL 'Online! 1 May 1999 (1999-05-01), XP002283275 retrieved from EBI Database accession no. Q9ZU93 abstract	1-7, 9-17, 23-34
A	----- PENG JINRONG ET AL: "'Green revolution' genes encode mutant gibberellin response modulators" NATURE (LONDON), vol. 400, no. 6741, 15 July 1999 (1999-07-15), pages 256-261, XP002283524 ISSN: 0028-0836 the whole document	1-7, 9-17, 23-34
P, X	----- RANCOUR DAVID M ET AL: "Plant UBX domain-containing protein 1, PUX1, regulates the oligomeric structure and activity of arabidopsis CDC48." JOURNAL OF BIOLOGICAL CHEMISTRY, ELECTRONIC PUBLICATION: 2004-10-21. JOURNAL CODE: 2985121R. ISSN: 0021-9258., vol. 279, no. 52, 24 December 2004 (2004-12-24), pages 54264-54274, XP002339040 cited in the application the whole document -----	1-7, 9-17, 23-34

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Information on patent family members

International Application No

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 03085115 A	16-10-2003	AU 2003224056 A1 CA 2482145 A1	20-10-2003 16-10-2003

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